

What is claimed is:

1. A process for continuous production of a water-absorbent resin product, which comprises the following steps of:

5 (A) measuring a water-absorbent resin by its predetermined property and/or its predetermined component content, wherein the water-absorbent resin comes being continuously produced via a classification step and/or a surface-modifying step;

(B) separating a predetermined amount of water-absorbent resin (a) from the water-absorbent resin that comes being continuously produced, wherein the
10 water-absorbent resin (a) is a water-absorbent resin which displays not less than a definite value and/or a water-absorbent resin which displays not more than a definite value as to the predetermined property and/or the predetermined component content in accordance with results of the aforementioned measurement; and

(C) mixing at least a portion of the aforementioned separated predetermined
15 amount of water-absorbent resin (a) into a water-absorbent resin that comes being continuously produced via a classification step and/or a surface-modifying step on the same or another production line.

2. A process for continuous production of a water-absorbent resin product
20 according to claim 1, wherein the mixing in the aforementioned step (C) is carried out on the way of the production line.

3. A process for continuous production of a water-absorbent resin product, which comprises a step (A) of measuring a water-absorbent resin by its
25 predetermined property and/or its predetermined component content, wherein the water-absorbent resin comes being continuously produced via a classification step and/or a surface-modifying step;

with the process involving a change of a production condition in accordance

with results of the aforementioned measurement.

4. A process for continuous production of a water-absorbent resin product according to claim 1, wherein the aforementioned water-absorbent resin which is
5 measured by its predetermined property and/or its predetermined component content is a water-absorbent resin product that is finally obtained via the surface-modifying step.

5. A process for continuous production of a water-absorbent resin product
10 according to claim 1, wherein the aforementioned predetermined property and/or the aforementioned predetermined component content is at least one member selected from the group consisting of absorption capacity without load, absorption capacity under load, liquid permeability, and particle diameters.

15 6. A process for continuous production of a water-absorbent resin product according to claim 5, wherein the aforementioned particle diameters are measured by a laser diffraction scattering method.

7. A process for continuous production of a water-absorbent resin product,
20 which comprises a step of measuring a water-absorbent resin by its particle diameters, wherein the water-absorbent resin comes being continuously produced via a classification step and/or a surface-modifying step;

wherein the aforementioned particle diameters of the water-absorbent resin are measured by a laser diffraction scattering method.

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8. A process for continuous production of a water-absorbent resin product according to claim 7, which involves a change of a production condition in accordance with the analyzed particle diameters.

9. A water-absorbent resin product, which is a water-absorbent resin product obtained by a process including the steps of: crosslink-polymerizing a monomer including acrylic acid and/or its salt; and then surface-crosslinking the resultant polymer with a dehydration-reactable crosslinking agent;
- 5 with the water-absorbent resin product satisfying the following:
- (1) a mass-average particle diameter in the range of 300 to 600 μm ;
 - (2) a residual monomer content of not higher than 500 ppm;
 - (3) an average value of not less than 25 g/g and a standard deviation of 0 to
 - 10 0.50 as to an absorption capacity which is measured in a number "n" of analyzed samples = 3 without load;
 - (4) an average value of not less than 20 g/g and a standard deviation of 0 to 0.35 as to an absorption capacity which is measured in a number "n" of analyzed samples = 3 under a load of 1.9 kPa or 4.9 kPa; and
 - 15 (5) an average value of less than 5.0 mass % and a standard deviation of 0 to 0.50 as to a fine powder (smaller than 150 μm) content which is measured in a number "n" of analyzed samples = 3.
- 10 20 10. A water-absorbent resin product according to claim 9, wherein the dehydration-reactable crosslinking agent is a polyhydric alcohol.